Product Description



Plastic-Encapsulate Transistors

FEATURES

Complimentary to \$8550

MARKING: J3Y

MAXIMUM RATINGS (TA=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V _{cao}	40	V
Collector-Emitter Voltage	V _{CEO}	25	V
Emitter-Base Voltage	V _{EBO}	5	V
Collector Current -Continuous	1 _c	0.5	A
Collector Power Dissipation	Pc	0.3	W
Junction Temperature	T _I	150	°C
Storage Temperature	Tstg	-55 to +150	°C

S8050 (NPN)



ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	VCBO	IC= 100 µA, IE=0	40			v
Collector-emitter breakdown voltage	VCEO	IC=ImA, IB=0	25			V
Emitter-base breakdown voltage	VEBO	IE=100μΑ, IC=0	5			V
Collector cut-off current	ICBO	VCB=40 V , IE=0	6		0.1	uА
Collector cut-off current	ICEO	VCB=20V, IE=0	10 10		0.1	μА
Emitter cut-off current	I _{EBO}	VEB=5V, IC=0			0.1	μА
DC current gain	HFE(1)	VCE=IV, IC=50mA	120		350	
	HFE(2)	VCE=IV, IC=500mA	50			
Collector-emitter saturation voltage	V _{CE} (sat)	I _C =500 mA, I _B =50mA			0.6	V
Base-emitter saturation voltage	VBE(sat)	IC=500 mA, IB=50mA			1,2	v
Transition frequency	fT	VCE=6V, IC= 20mA f=30MHz	150			MHz

CLASSIFICATION OF hFE

Rank	L	H	
Range	120-200	200-350	

S8050 Typical Characteristics







